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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of:
Farooq et al.

Serial No.: 10/680,622

Filed: October 7, 2003

Group Art Unit: 3729

Examiner: Chang, Rick K.

Atty. Docket No.: FIS920030231US1

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Pamela M. Riley

For: BALL GRID ARRAY REWORK USING CONTINUOUS BELT FURNACE

WRITTEN REQUEST FOR INTERVIEW WITH EXAMINER AFTER FINAL REJECTION UNDER MPEP §713.09

Examiner Richard K. Chang
Art Unit 3729
c/o Mail Stop Non-Fee Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

An interview is respectfully requested with the Examiner to discuss the above-referenced patent application. More particularly, per instructions contained in the Final Office Action on the above-referenced patent application, the following is a written explanation setting out the intended purpose and content of the interview.

The purpose of the interview is to discuss a proposed amendment. Specifically, the prior art cited (U.S. Patent No. 6,063, 188 to Heid) is clearly distinguishable from the present invention in that it refers to a temperature sensitive release for latch that is used to secure a lid on a crucible and the present invention refers to a temperature sensitive release for partial-circle structures that are positioned to pass between two parts of a workpiece (e.g., a substrate and a chip) in order to break the interconnects that connect the two parts. In order to better clarify this distinction, I propose the claims be amended so that the features of previously presented dependent claims 6, 13 and 20 are moved up into the respective independent claims (see Attachment).

Neither the first office action, nor the final office action, addresses the specific features of dependent claims 6, 13 and 20 . That is, neither of the previous office actions addresses how the invention of Heid discloses partial-circle structure(s) that are positioned to move between two parts of a workpiece and break interconnects when released by temperature-sensitive release(s). The Applicants respectfully submit that Heid does not teach or suggest these features. The Applicants further submit that theses features were previously presented and, thus, they do not present new issues that require a search. Therefore, an interview is respectfully requested with the Examiner to discuss entering the proposed amendments.

Respectfully submitted,

Dated: 10/10/06

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10/680,622

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ATTACHMENT

Proposed Amendments

1. (Currently Amended) An apparatus for separating two parts of a workpiece, wherein said two parts are connected by interconnects, said apparatus comprising:

at least one partial-circle structures; and

at least one temperature-sensitive release~~s~~ in contact with said partial-circle structure~~s~~,

wherein said partial-circle structure is positioned to pass between said two parts and break ~~separate~~ said interconnects when released by said temperature-sensitive release~~, and wherein rotational paths of said partial-circle structures partially overlap~~.

2. (Original) The apparatus in claim 1, wherein said at least one partial-circle structure comprises a plurality of partial-circle structures in contact with a plurality of temperature-sensitive releases, and

each of said temperature-sensitive releases are different, such that each of said partial-circle structures is released at a different temperature.

3. (Currently Amended) The apparatus in claim 1, wherein said at least one partial-circle structure comprises a plurality of partial-circle structures in contact with a plurality of temperature-sensitive releases, and

wherein rotational paths of said partial-circle structures partially overlap.

4. (Currently Amended) The apparatus in claim 1, wherein said at least one partial-circle structure comprises a plurality of partial-circle structures in contact with a plurality of temperature-sensitive releases, and

wherein said ~~a~~-workpiece is positioned between said partial-circle structures.

5. (Original) The apparatus in claim 4, wherein said partial-circle structures rotate around axis external to said workpiece.

6. (Cancelled).

7. (Original) The apparatus in claim 1, wherein said temperature-sensitive release is adapted to release said partial-circle structure at a temperature above a melting point of said interconnects.

8. (Currently Amended) An apparatus for separating two parts of a workpiece, wherein said two parts are connected by interconnects, said apparatus comprising:

partial-circle structures; and

temperature-sensitive releases in contact with said partial-circle structures, wherein said partial-circle structures are positioned to pass between said two parts and break ~~separate~~ said interconnects when released by said temperature-sensitive releases; and

reservoirs positioned to receive material from said interconnects ~~separated~~ broken by said partial-circle structures,

~~wherein rotational paths of said partial-circle structures partially overlap~~.

9. (Currently Amended) The apparatus in claim 8, wherein each of said temperature-sensitive releases are different, such that each of said partial-circle structures is released at a different temperature and wherein rotational paths of said partial-circle structures partially overlap.

10. (Cancelled).

11. (Currently Amended) The apparatus in claim 8, wherein ~~a~~ said workpiece is positioned between said partial-circle structures.

12. (Original) The apparatus in claim 11, wherein said partial-circle structures rotate around axis external to said workpiece.

13. (Cancelled).

14. (Original) The apparatus in claim 8, wherein said temperature-sensitive releases are adapted to release said partial-circle structures at temperatures above a melting point of said interconnects.

15. (Currently Amended) An apparatus for separating two parts of a workpiece, wherein said

two parts are connected by interconnects, said apparatus comprising:

rotationally biased partial-circle structures; and

temperature-sensitive releases in contact with said partial-circle structures,

wherein said partial-circle structures are positioned to rotate, to pass between said two parts and to break ~~and separate~~ said interconnects when released by said temperature-sensitive releases ~~and wherein rotational paths of said partial-circle structures partially overlap~~.

16. (Currently Amended) The apparatus in claim 15, wherein each of said temperature-sensitive releases are different, such that each of said partial-circle structures is released at a different temperature and wherein rotational paths of said partial-circle structures partially overlap.

17. (Cancelled).

18. (Currently Amended) The apparatus in claim 15, wherein ~~a~~ said workpiece is positioned between said partial-circle structures.

19. (Original) The apparatus in claim 18, wherein said partial-circle structures rotate around axis external to said workpiece.

20. (Cancelled).